

Claims

1. A rotating-pressing operation type electronic part comprising: a frame body; a rotating operation body of a sleeve shape rotatably supported within said frame body; and at least three electrically conductive leg portions attached to said frame body and able to be elastically deformed, wherein tip portions of said electrically conductive leg portions are directly positioned in a print substrate and are electrically connected to the print substrate.

2. The rotating-pressing operation type electronic part according to claim 1, wherein the electrically conductive leg portion has a connecting portion approximately curved in a U-shape.

3. The rotating-pressing operation type electronic part according to claim 1 or 2, wherein a free end portion of the electrically conductive leg portion is divided into two portions, and is approximately bent in a V-shape.

4. The rotating-pressing operation type electronic part according to any one of claims 1 to 3, wherein at least one magnetic detecting means able to magnetically detect the rotation of the rotating operation body is arranged in the frame body.

5. The rotating-pressing operation type electronic part according to any one of claims 1 to 4, wherein a push

button switch is arranged on a lower face of the frame body.

6. An electronic device using a rotating-pressing operation type electronic part in which the electronic device is constructed by the rotating-pressing operation type electronic part according to any one of claims 1 to 4; and the print substrate for directly electrically connecting a tip portion of the electrically conductive leg portion of this rotating-pressing operation type electronic part, and mounting a push button switch so as to be located just below the frame body of said rotating-pressing operation type electronic part, wherein detecting data of a rotating direction and a rotating amount of said rotating operation body are outputted through said electrically conductive leg portion by rotating the rotating operation body of said rotating-pressing operation type electronic part, and said push button switch is operated by pushing down said frame body.

7. An electronic device using a rotating-pressing operation type electronic part in which the electronic device is constructed by the rotating-pressing operation type electronic part according to any one of claims 1 to 4; and the print substrate for soldering and directly electrically connecting a tip portion of the electrically conductive leg portion of this rotating-pressing operation

type electronic part, and mounting a push button switch so as to be located just below the frame body of said rotating-pressing operation type electronic part, wherein detecting data of a rotating direction and a rotating amount of said rotating operation body are outputted through said electrically conductive leg portion by rotating the rotating operation body of said rotating-pressing operation type electronic part, and said push button switch is operated by pushing down said frame body.

8. An electronic device using a rotating-pressing operation type electronic part in which the electronic device is constructed by the rotating-pressing operation type electronic part according to claim 5; and the print substrate for directly electrically connecting a tip portion of the electrically conductive leg portion of this rotating-pressing operation type electronic part, and able to directly electrically connect a lead terminal of the push button switch of said rotating-pressing operation type electronic part, wherein detecting data of a rotating direction and a rotating amount of said rotating operation body are outputted through said electrically conductive leg portion by rotating the rotating operation body of said rotating-pressing operation type electronic part, and said push button switch is operated by pushing down said frame body.

9. A rotating-pressing operation type electronic part comprising: a frame body; a rotating operation body of a sleeve shape rotatably supported within said frame body; an annular magnet having N-poles and S-poles alternately arranged at a predetermined angle pitch and assembled into said rotating operation body on the same axis; and plural leg portions attached to said frame body and able to be elastically deformed, wherein said leg portions are directly positioned in a print substrate.

10. An electronic device using a rotating-pressing operation type electronic part in which the electronic device is constructed by the rotating-pressing operation type electronic part according to claim 9; and the print substrate for mounting at least one magnetic detecting means in a position able to detect a magnetic flux of an annular magnet of this rotating-pressing operation type electronic part, and mounting a push button switch so as to be located just below the frame body of said rotating-pressing operation type electronic part, wherein a rotating direction and a rotating amount of said rotating operation body are detected by said magnetic detecting means by rotating the rotating operation body of said rotating-pressing operation type electronic part, and said push button switch is operated by pushing down said frame body.